

SEQUENCE LISTING

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ARAMORI, ICHIRO
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UNAMI, AKIRA
NOTO, TAKAHISA

<120> Novel method of selecting immunosuppressant having little thrombocytopenic effect

<130> 264163US0PCT

<140> 10/519,678

<141> 2005-01-07

<150> PCT/JP03/08621

<151> 2003-07-07

<150> JP 2002-203901

<151> 2002-07-12

<160> 19

<170> PatentIn version 3.1

<210> 1

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-1

<400> 1

tcgctagcct gagtatttaa caatcgcacc ct

32

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer- 2

<400> 2

cgaagcttgt ggcaggagtt gaggttactg

30

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-3

<400> 3
 cgctagctgc tcttgtccac cacaatatgc 30

<210> 4
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer-4

<400> 4
 atagatctat ccctggctcc cacctcag 28

<210> 5
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer-5

<400> 5
 ataagctttg gtggttgcg agggttcg 28

<210> 6
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer-6

<400> 6
 atggtaccac cccagaagat gccaggag 28

<210> 7
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer- 7

<400> 7
 atgctagcgc cctctgagcc tcagtttc 28

<210> 8
 <211> 731
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(731)

<223> Human interleukin-2 (IL-2) gene 5'-flanking region

<220>

<221> TATA_signal

<222> (652)..(657)

<223> Corresponding to the TATA sequence

<220>

<221> misc_feature

<222> (676)..(657)

<223> The putative transcription initiation site of the IL-2 gene promoter

<220>

<221> misc_feature

<222> (1)..(731)

<223> Corresponding to the sequence (689-1416) in the GenBank database (Accession: X00695), except for several variations.

<220>

<221> variation

<222> (38)..(731)

<223> 1 bp insertion

<220>

<221> variation

<222> (196)..(731)

<223> T to A exchange

<220>

<221> variation

<222> (346)..(731)

<223> T to G exchange

<220>

<221> variation

<222> (577)..(731)

<223> T to A exchange

<220>

<221> variation

<222> (688)..(689)

<223> 2 bp insertion (CT)

<400> 8

ctgagtattt aacaatcgca ccctttaaaa aatgtacaat agacattaag agacttaaac 60

agatatataa tcatttttaa ttaaaatagc gttaaacagt acctcaagct caataagcat 120

tttaagtatt ctaatcttag tatttctcta gctgacatgt aagaagcaat ctatcttatt 180

gtatgcaatt agctcattgt gtggataaaa aggtaaaacc attctgaaac aggaaaccaa 240

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tacacttcoct gtttaaatcaa caaatctaaa catttattct tttcatctgt ttactcttgc 300
tcttgtccac cacaatatgc tattcacatg ttcagtgtag ttttaggaca aagaaaattt 360
tctgagttac ttttgtatcc ccaccccctt aaagaaagga ggaaaaactg tttcatacag 420
aaggcggttaa ttgcatgaat tagagctatc acctaagtgt gggctaattgt aacaaagagg 480
gatttcacct acatccattc agtcagtctt tgggggttta aagaaattcc aaagagtcac 540
cagaagagga aaaatgaagg taatgttttt tcagacaggt aaagtctttg aaaatatgtg 600
taatatgtaa aacattttga ccccccata atatttttcc agaattaaca gtataaattg 660
catctcttgt tcaagagttc cctatcactc tctttaatca ctactcacag taacctcaac 720
tcctgccaca a 731

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<210> 9
<211> 819
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(819)
<223> Human GATA- 1 gene promoter region

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<220>
<221> misc_feature
<222> (1)..(819)
<223> Corresponding to the sequence (5342-6160) reported by K. Blechsc
hmids et al. / GenBank (Accession: AF196971)

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<220>
<221> misc_feature
<222> (790)..(819)
<223> The putative transcription initiation site of the GATA-1 gene pro
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<400> 9
atccctggct cccacctcag tttcccgctt ccaaggcagc atggcgggca agaagttgag 60
gccactgtcc ctgggtgttc ctacccccac accctcacc ccaagacagcc tgttactgag 120
gcgccaacag ccacggtcgc ctacatctga taagacttat ctgctgcccc agggcaggcc 180
ggagctggcg taagccccag tggggcgcta agtgagtgtg ccctgcctc ccgccagcac 240
tggcctggcc tgcaggctta gcctgggtca tcaaggtatc ccacaggctc tagttcaaat 300
ccagcagaac ctctctgagc ctactcttcc tcacctgcaa aatgggtaca gccacatccc 360
ttctctccct gcagccagga agacgcacat acacaggagt ctagcccaca ccggccccgc 420
acaaattaag ggctttactc tctgaaaagc ccagtgaagt catgaaacca tatctgctat 480

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tttcatttat cttggtttca gcctatTTTtg cttgtctgga cactacagtc cacgggagcc 540
taggtcgagc gaggtccaag aatccccagg gtgggcaggg aggggtggaag agggcctcca 600
gtgcccaaga ggtgccccac aagcatggga cccgccccct cccctggact gccccacca 660
ctggggcacc agccactccc tggggaggag ggaggaggga gaaggaggag agggaggag 720
ggaggaaggg agcctcaaag gccaaaggcca gccaggacac cccctgggat cacactgagc 780
ttgccacatc cccaaggcgg ccgaaccctc cgcaaccac 819

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<210> 10
<211> 637
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(637)
<223> Human GATA- 1 gene enhancer region

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<220>
<221> misc_feature
<222> (1)..(637)
<223> Corresponding to the sequence (2362-2998) reported by K. Blechs
      chmidt et al. / GenBank (Accession: AF196971)

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<400> 10
accccagaag atgccaggag ggagtgagcc agtcaggga ggcttccgag aagagaggac 60
attgaagaag agtctcaaac ttaggcctga cggagaagac gcgcggccag gacacccac 120
ccccgccctc gtctcccca aagcctgatc tggccccact gattccctta tctgccact 180
cccagctgcc tccttgctgg ctgaactgtc gccgcagact tctgagcctg cgcgccctcc 240
acgggggatgg gggagggaat ggggtgaggc ctggcctcac agcctcgggg ttccagctc 300
ttgctggagg cagggtcttg gggcgcccta ctctcacc ttggcttctc ttctgagcg 360
ctctgtgctc tccagaaatg aagaaatggg gtgagtccag cggccaaacc cttgtcttag 420
ctcttagaca tgcctcgagc ctgccattcc ctgtgaggac agatttcctt atgttgcgac 480
cgctgcttct aataataata atgatgatga taattcccat ttacagagca caccatttat 540
gggtgtccag caggccctgt gctgagtggg tctaccac gtggggggct aggactttac 600
ccgttttcca gatgaagaaa ctgaggctca gagggcg 637

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<210> 11
<211> 434
<212> DNA
<213> Homo sapiens

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<220>

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<221> misc_feature
 <222> (1)..(434)
 <223> Human interleukin-2 (IL-2) gene 5'-flanking region

<220>
 <221> TATA_signal
 <222> (355)..(360)
 <223> Corresponding to the TATA sequence

<220>
 <221> misc_feature
 <222> (379)..(360)
 <223> The putative transcription initiation site of the IL-2 gene promoter

<220>
 <221> misc_feature
 <222> (1)..(434)
 <223> Corresponding to the sequence (+985 to +1416) in the GenBank database (Accession: X00695), except for several variations.

<220>
 <221> variation
 <222> (49)..(434)
 <223> T to G exchange

<220>
 <221> variation
 <222> (280)..(434)
 <223> T to A exchange

<220>
 <221> variation
 <222> (391)..(392)
 <223> 2 bp insertion (CT)

<400> 11
 tgctcttgct caccacaata tgctattcac atgttcagtg tagtttttagg acaaagaaaa 60
 ttttctgagt tactttttgta tccccacccc cttaaagaaa ggaggaaaaa ctgtttcata 120
 cagaaggcgt taattgcatg aattagagct atcacctaag tgtgggctaa tgtaacaaag 180
 agggatttca cctacatcca ttcagtcagt ctttgggggt ttaaagaaat tccaaagagt 240
 catcagaaga ggaaaaatga aggtaatggt ttttcagaca ggtaaagtct ttgaaaatat 300
 gtgtaatatg taaaacattt tgacaccccc ataatatatt tccagaatta acagtataaa 360
 ttgcatctct tgttcaagag ttccctatca ctctctttaa tcactactca cagtaaccto 420
 aactcctgcc acaa 434

<210> 12

<211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> CEBP-11, synthetic DNA

 <400> 12
 cgcgttgagc aagacttgag caagtacttg agcaagcgtt gagcaaggct tgagcaagc 59

 <210> 13
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> CEBP-12, synthetic DNA

 <400> 13
 tcgagcttgc tcaagccttg ctcaacgctt gctcaagtac ttgctcaagt cttgctcaa 59

 <210> 14
 <211> 51
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> HSE-11, synthetic DNA

 <400> 14
 cgcgtctaga atgttctaga tctagaacat tctagctaga atgttctaga c 51

 <210> 15
 <211> 51
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> HSE-12, synthetic DNA

 <400> 15
 tcgagtctag aacattctag ctagaatggt ctagatctag aacattctag a 51

 <210> 16
 <211> 651
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> GATA-1 gene HSI region (mutant)

 <220>
 <221> mutation
 <222> (178)..(178)
 <223> in vitro mutation (from "a" to "g")

<220>
 <221> mutation
 <222> (519)..(519)
 <223> in vitro mutation (from "t" to "g")

<400> 16
 ctacgcgtac cccagaagat gccaggaggg agtgagccag tcaggggaagg cttccgagaa 60
 gagaggacat tgaagaagag tctcaaaactt aggcctgacg gagaagacgc gcggccagga 120
 caccaccacc cgcgcctcgt ctcccccaaa gcctgatctg gcccactga ttcccttgtc 180
 tgcccactcc cagctgcctc cttgctgggt gaactgtcgc cgcagacttc tgagcctgcg 240
 ccccctccac ggggatgggg gagggaaatgg ggtgaggcct ggcctcacag cctcgggggt 300
 tccagctctt gctggaggca gggctctggg gcgcctact cctcaccctt ggcttctctt 360
 cctgagcgcgt ctgtgctctc cagaaatgaa gaaatggggg gagtccagcg gccaaaccct 420
 tgtottagct cttagacatg cctcgagcct gccattccct gtgaggacag atttccttat 480
 gttgcgaccg ctgcttctaa taataataat gatgatgaga attcccattt acagagcaca 540
 ccatttatgg tgtgccagca ggccctgtgc tgagtgggtc ctaccacgt ggggggctag 600
 gactttaccc gttttccaga tgaagaaact gaggctcaga gggcagatct g 651

<210> 17
 <211> 838
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GATA-1 gene IE promoter (mutant)

<220>
 <221> mutation
 <222> (160)..(160)
 <223> in vitro mutation (from "t" to "g")

<220>
 <221> mutation
 <222> (168)..(168)
 <223> in vitro mutation (from "a" to "g")

<220>
 <221> mutation
 <222> (287)..(287)
 <223> in vitro mutation (from "a" to "g")

<220>
 <221> mutation
 <222> (482)..(482)
 <223> in vitro mutation (from "t" to "g")

<220>
 <221> mutation
 <222> (498)..(498)
 <223> in vitro mutation (from "a" to "g")

<220>
 <221> mutation
 <222> (798)..(798)
 <223> in vitro mutation (from "t" to "g")

<400> 17
 atagatctga tccctggctc ccacctcagt ttcccgcctc caaggcagca tggcgggcaa 60
 gaagttgagg ccaactgtccc tgggtgttcc taccceccaca ccctcacccc aagacagcct 120
 gttactgcgg cgccaacagc cacggtcgcc tacatctgag aagacttgct tgctgcccc 180
 gggcaggccg gagctggcgt aagccccagt ggggcgctaa gtgagtgtgc ccctgcctcc 240
 cgccagcact ggccctggcct gcaggcttag cctgggtcat caagggtgcc cacaggctct 300
 agttcaaadc cagcagaacc tctctgagcc tcaactcttct cacctgcaaa atgggtacag 360
 ccacatccct tctctccctg cagccaggaa gacgcacata cacaggagtc tagccacac 420
 cgcccccgca caaattaagg gctttactct ctgaaaagcc cagtgaagtc atgaaacat 480
 agctgctatt ttcatttgct ttgggtttcag cctattttgc ttgtctggac actacagtc 540
 acgggagcct aggtcgagcg aggtccaaga atccccaggg tgggcaggga ggggtggaaga 600
 gggcctccag tgcccaagag gtgccccaca agcatgggac ccgccccctc ccctggactg 660
 cccacccac tggggcacca gccactccct ggggaggagg gaggaggag aaggaggga 720
 gggaggaggagg gaggaaggga gcctcaaagg ccaaggccag ccaggacacc ccctgggatc 780
 aactgagct tgccacagcc ccaaggcggc cgaaccctcc gcaaccacca aagcttat 838

<210> 18
 <211> 65
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> STAT3 forward sequence, synthetic DNA

<400> 18
 tgcttccga acgttgcttc ccgaacgttg cttcccgaac gttgcttccc gaacgtagat 60
 ctggg 65

<210> 19
 <211> 65
 <212> DNA
 <213> Artificial Sequence

<220>

<223> STAT3 reverse sequence, synthetic DNA

<400> 19

cccagatcta cgttcgggaa gcaacgttcg ggaagcaacg ttcgggaagc aacgttcggg
aagca

60

65